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	Application No.	Applicant(s)		
Notice of Allowability	10/719,039	KAPLAN ET AL.	KAPLAN ET AL.	
	Examiner	Art Unit		
	Prieto B.	2142		
The MAILING DATE of this communication apper All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in or other appropriate common GHTS. This application is s	n this application. If not included unication will be mailed in due of	ł ourse. THIS	
1. This communication is responsive to <u>07/26/05 (After-Final)</u>				
2. The allowed claim(s) is/are <u>15-23,30-34 and 45-49</u> .	·			
3. \boxtimes The drawings filed on $\underline{11/21/03}$ are accepted by the Examin	ner.			
 4. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a)				
Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/05 Paper No./Mail Date 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	6. ☐ Interview S Paper No./ 8), 7. ☑ Examiner's	formal Patent Application (PTO- ummary (PTO-413), /Mail Date Amendment/Comment Statement of Reasons for Allow Eatle Lie BEATRIZ PRIET	rance	

PRIMARY EXAMINER



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Examiner's Amendment

1. An Examiner's Amendment to the record appears below. Should the changes or additions be unacceptable to Applicant, an amendment may be filed as provided by 37 C.F.R. § 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the Issue Fee.

Title

2. Pursuant to M.P.E.P. §606.01, this title has respectfully been changed to read as follows:

-- REDUCTION AND OPTIMIZATION OF OPERATIONAL QUERY EXPRESSIONS APPLIED TO INFORMATION SPACES BETWEEN NODES IN A PUBLISH/SUBSCRIBE SYSTEM --

Reason for allowance

3. The following is the Examiner's statement of Reason for Allowance: the prior art of record teaches the claimed invention substantially as claimed, however failed to teach or suggest individually or in combination; a first operation sequence having a transform operation followed by a select operation, including converting the first operation sequence into a second equivalent operation sequence comprising a select operation followed by a transformation operation, as claimed.

Specifically, the prior art of record failed to teach a select operation (i.e. an expression representing an operation applied to information, also called stream, messages or data) which involves select query operations (i.e. a predicate defined by the expression such as a Boolean valued function of any attribute names and constant) (see disclosure on page 6, lines 23-28), are pushed ahead of transform operations in each sequence converted into an equivalent sequence and further combining with sequential sequence transformations operations (i.e. expression representing an operation applied to information) which involved applying a formula or conversion rule based on a set of constants, and transforming the data elements by performing a conversion of data elements (see disclosure page 7, lines 1-9, and element 50 of Fig. 1), as set forth independent claims 15, 30 and 45. Claims are allowed because of the combination of other limitations and the limitation listed above.

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4. Double patent analysis has been performed with respect to <u>issued patents</u> having common relationship of inventorship and/or ownership with respect to the above-allowed claims, <u>none</u> are found to warrant a double patenting rejection (See enclosed East history search).

- 5. This applications is a divisional application of application 09/322,521 now patent 6,681,220 issued 01/20/04. A double patenting rejection is not permitted where the claimed subject matter is presented in a divisional application as a result of a restriction requirement made in a parent application under 35 U.S.C. 121 (see MPEP 804). The claims of an application are <u>not</u> the same as those of the above-mentioned patent, they are not barred under 35 U.S.C. 101 the statutory basis for a double patenting rejection.
- 6. The method claims are directed to a *statutory* process. Specifically, in this case claims have a practical application in the technological arts, such as arranging operations performable on information in network based system, i.e. an information processing systems and reorganizing information by an automated processing system, this is not disembodied mathematical concept which may be characterized as an abstract idea, but rather a specific machine to produce a useful, concrete, and tangible result. The method recites discrete physical structures or materials may be comprised of hardware or a combination of hardware and software (specs p. 6), at least e.g. the information processing system, producers and subscribers, i.e. network nodes. Claims 30-34 are directed to the system comprising the means for performing the method functions and claims 45-49 are directed to the article of manufacture comprising the computer useable medium having computer readable program code means embodied therein for performing the functions of the method.

Conclusion

7. Any comments Applicants considers necessary must be submitted no later than the payment of the Issue Fee and to avoid processing delays, should preferable accompany the Issue Fees. Such submission should be clearly labeled "Comments on Statement of Reasons for Allowance". In event of any post-allowance papers (e.g. IDS, 312 amendment, petition, etc.), Applicant is exhorted to mail papers to the Production Control branch in Publications or faxed to post-allowance papers correspondence branch at (703) 308-5864 to expedite issuing process or call PUB's Customer Service if any questions at (703) 305-8497.

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Any inquiry concerning this communication or earlier communications from the

examiner should be directed to B. Prieto whose telephone number is (571) 272-3902. The

Examiner can normally be reached on Monday-Friday from 6:30 to 4:00 p.m. If attempts to

reach the examiner by telephone are unsuccessful, the Examiner's Supervisor, Andrew T. Caldwell

can be reached at (571) 272-3868. The fax phone number for the organization where this

application or proceeding is assigned is (703) 872-9306. Any inquiry of a general nature or

relating to the status of this application or proceeding should be directed to the receptionist

whose telephone number is (703) 305-3800/4700.

Information regarding the status of an application may be obtained fro the Patent Application

Information Retrieval (PAIR) system, status information for published application may be obtained from

either Private or Public PAIR, for unpublished application Private PAIR only (see http://pair-

direct.uspto.gov or the Electronic Business Center at 866-217-9197 (toll-free).

Any response to this action should be mailed to:

Box Issue Fee

Commissioner of Patents and Trademarks

P.O. Box 1450

Alexandria, VA 22313-1450

or faxed to:

(703) 746-4000, (Issue Fee and any Publication fee/payments)

Or:

(703) 305-8283 (for checking on receipt of payment w/Publication)

August 6, 2005